

BCM-16

16-channel Branch Current Monitor

by Pivotal Technologies

DESCRIPTION

The BCM-16 is a 16-channel Current Transformer Interface designed for Branch Circuit Current Monitoring applications such as in Data Centres. It functions as a Modbus Server (Slave) from which a Client (Master) can read up to 16 RMS current inputs in either 32-bit floating point double registers or 16-bit fixed point single registers. The BCM-16's inputs interface directly to Pivotal's SCT-10 split-core Current Transformers (CT) for measurements up to 60A_{RMS} or to Rigowski Coils (RC) with additional integrator for currents up to 1000A_{RMS}.

An intuitive console menu provides the facility to setup and configure the board including the baud rate and slave address. All settings are saved to non-volatile memory and are loaded as defaults when the module is powered up.

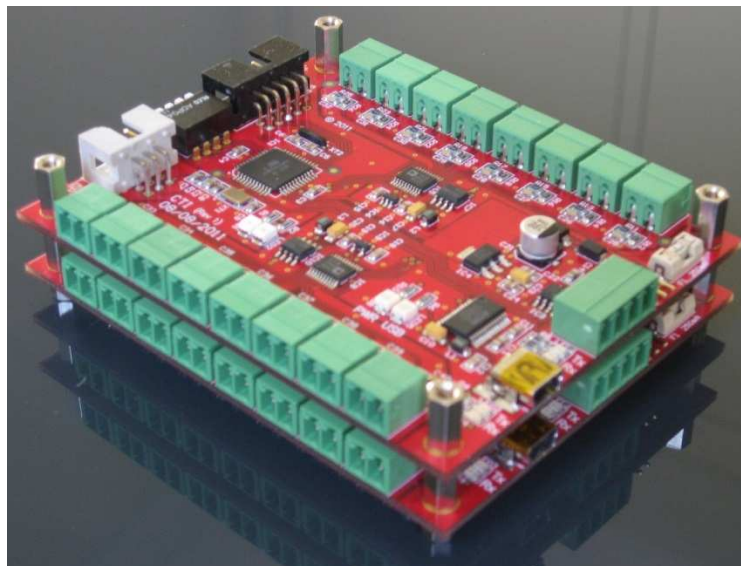
Due to its compact size and simple interface, the BCM-16 is well suited for retrofit to existing distribution and switchboards. The low-profile, stackable PCB and side entry connectors make it ultra-scalable for use in any sized installation.

FEATURES

- Small size, Low Cost, Low Power
- Low Supply Voltage requiring no mains wiring
- Fast (1 sec) update for all 16 channels
- 32-bit floating point **and** 16-bit fixed point result registers
- Sensor Options – 60A CT or 1000A Rigowski Coil
- Console based Embedded Menu for setup & configuration
- Direct connection to Console via USB (Virtual Comport)
- Tx/Rx Indicators for easy confirmation of Comms
- Stackable PCB designed for convenient system expansion

APPLICATIONS

- Energy Cost Allocation / Billing
- Load Balancing
- General Instrumentation



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SPECIFICATIONS

General	
Power Supply:	6 to 15 V DC
Current Consumption:	20 mA
Number of Channels:	16
Sampling Rate:	1 kHz
Update Rate:	1 Hz
Input Frequency:	50 or 60 Hz
Input Range:	60 A _{RMS}
Resolution:	12 bits
Accuracy:	1.5 % FS

Communications Interface	
Electrical:	RS/EIA-485
Protocol:	Modbus RTU
Address Range:	1 to 247
Baud:	9600, 19200, 38400
Data Bits:	8
Parity:	None
Stop Bits:	2

Dimensions <i>(Excludes mating connectors)</i>	
Length:	100 mm
Width:	80 mm
Height:	9 mm
Mounting Holes:	(4) @ 90 x 70 mm
Minimum Stacking Height:	10 mm

Environmental	
Operating Temperature:	0°C to 60°C
Operating Humidity:	10% to 90% RH (non-condensing)
Storage Temperature:	-40°C to 85°C

(Specifications are subject to change without notice.)



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